

## ARG20905 anti-CD31 antibody [390] (APC)

Package: 50 µg  
Store at: 4°C

### Summary

|                     |  |
|---------------------|--|
| Product Description | APC-conjugated Rat Monoclonal antibody [390] recognizes CD31   |
| Tested Reactivity   | Ms   |
| Tested Application  | BL, FACS, ICC/IF, IHC-Fr   |
| Specificity         | Mouse CD31. The clone 390 inhibits the aggregation of L cells transfected with a variant form of CD31.                     |
| Host                | Rat  |
| Clonality           | Monoclonal   |
| Clone               | 390  |
| Isotype             | IgG2a, kappa   |
| Target Name         | CD31   |
| Species             | Mouse  |
| Immunogen           | C3H/HeJ mouse hematopoietic progenitor cell line 32D   |
| Conjugation         | APC  |
| Alternate Names     | EndoCAM; CD31/EndoCAM; PECAM-1; CD31; PECA1; CD antigen CD31; GPIIA'; endoCAM; Platelet endothelial cell adhesion molecule |

### Application Instructions

| Application table | Application | Dilution                       |
|-------------------|-------------|--------------------------------|
|                   | BL          | Assay-dependent                |
|                   | FACS        | < 0.2 µg/10 <sup>6</sup> cells |
|                   | ICC/IF      | Assay-dependent                |
|                   | IHC-Fr      | Assay-dependent                |

**Application Note** \* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

### Properties

|                     |   |
|---------------------|---|
| Form                | Liquid  |
| Buffer              | PBS, 0.1% Sodium azide and Sucrose.   |
| Preservative        | 0.1% Sodium azide   |
| Stabilizer          | Sucrose   |
| Concentration       | 0.1 mg/ml   |
| Storage instruction | Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be |

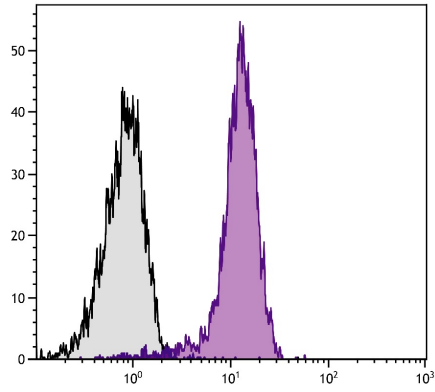
gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

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|                |  |
|----------------|--|
| Database links | <a href="#">GeneID: 18613 Mouse</a><br><a href="#">Swiss-port # Q08481 Mouse</a>   |
| Gene Symbol    | PECAM1   |
| Gene Full Name | platelet/endothelial cell adhesion molecule 1  |
| Background     | CD31 protein is found on the surface of platelets, monocytes, neutrophils, and some types of T-cells, and makes up a large portion of endothelial cell intercellular junctions. The encoded protein is a member of the immunoglobulin superfamily and is likely involved in leukocyte migration, angiogenesis, and integrin activation. [provided by RefSeq, May 2010]   |
| Function       | <p>CD31 is a cell adhesion molecule which is required for leukocyte transendothelial migration (TEM) under most inflammatory conditions (PubMed:19342684, PubMed:17580308). Tyr-690 plays a critical role in TEM and is required for efficient trafficking of PECAM1 to and from the lateral border recycling compartment (LBRC) and is also essential for the LBRC membrane to be targeted around migrating leukocytes (PubMed:19342684). Trans-homophilic interaction may play a role in endothelial cell-cell adhesion via cell junctions (PubMed:27958302). Heterophilic interaction with CD177 plays a role in transendothelial migration of neutrophils (PubMed:17580308). Homophilic ligation of PECAM1 prevents macrophage-mediated phagocytosis of neighboring viable leukocytes by transmitting a detachment signal (PubMed:12110892). Promotes macrophage-mediated phagocytosis of apoptotic leukocytes by tethering them to the phagocytic cells; PECAM1-mediated detachment signal appears to be disabled in apoptotic leukocytes (PubMed:12110892). Modulates bradykinin receptor BDKRB2 activation (PubMed:18672896). Regulates bradykinin- and hyperosmotic shock-induced ERK1/2 activation in endothelial cells (PubMed:18672896). Induces susceptibility to atherosclerosis.</p> <p>Isoform Delta15: Does not protect against apoptosis. [UniProt]</p> |
| Research Area  | Cancer antibody; Cell Biology and Cellular Response antibody; Controls and Markers antibody; Developmental Biology antibody; Signaling Transduction antibody; Endothelial Cell Marker antibody; Microvascular Density Study antibody   |
| Calculated Mw  | 83 kDa   |
| PTM            | Phosphorylated on Ser and Tyr residues after cellular activation. Phosphorylated on tyrosine residues by FER and FES in response to FCER1 activation (By similarity). In endothelial cells Fyn mediates mechanical-force (stretch or pull) induced tyrosine phosphorylation. Palmitoylation by ZDHHC21 is necessary for cell surface expression in endothelial cells and enrichment in membrane rafts.   |



ARG20905 anti-CD31 antibody [390] (APC) FACS image

Flow Cytometry: BALB/c Mouse splenocytes stained with ARG20905 anti-CD31 antibody [390] (APC).

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